

19981222.qrp v01_n313.qrs.981222

Date: Tue, 22 Dec 1998 19:03:12 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1313

QRP-L Digest 1313

Topics covered in this issue include:

- 1) [27757] Re: FYBO: Winter Field Day Stocking Stuffer Ideas
by mwattcpa@earthlink.net (Marty Watt)
- 2) [27758] "73" still arriving to subscription
by "rohre" <rohre@arlut.utexas.edu>
- 3) [27759] Re: 160 Meter QRP
by B11john@aol.com
- 4) [27760] Dave Kreinberg, NR3E in QST
by Roger Hightower <n7kt@earthlink.net>
- 5) [27761] Elecraft QSO
by Michael Gusky <mgusky@bellsouth.net>
- 6) [27762] Ladder footing, from Fire Dept.
by "rohre" <rohre@arlut.utexas.edu>
- 7) [27763] Charging Batteries in Parallel ???
by Jim Dolson <jdolson@iserv.net>
- 8) [27764] Jersey Fireball on 10, sched?
by mikemo@ibm.net
- 9) [27765] Re: MacOS Logging SW
by John Rollins <rexstout@uswest.net>
- 10) [27766] Simpson panel meters discon.
by "rohre" <rohre@arlut.utexas.edu>
- 11) [27767] WTB simpson meters.
by James Skalski <jskalski@buffnet.net>
- 12) [27768] Re: Balcony antennas, re Bilal
by Ab7wy@aol.com
- 13) [27769] First QSO!
by "Todd Foster, KD5FUF" <tef96a@timon.acu.edu>
- 14) [27770] Re: Charging Batteries in Parallel ???
by we6w@juno.com (Ed Loranger)
- 15) [27771] Great Circle Map Download?
by KF4EIB@aol.com
- 16) [27772] RE: QRP Column
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 17) [27773] SW-40+ Question
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 18) [27774] FOX: Need N2T0 FOX Log
by "Kevin F. Glynn" <kfglynn@prodigy.net>
- 19) [27775] Re: SW-40+ Question

- by Macstein@aol.com
- 20) [27776] ICS502
by Mighty Mik <mitymik@hooked.net>
- 21) [27777] RE: Charging Batteries in Parallel ???
by "Ed Tanton" <n4xy@mindspring.com>
- 22) [27778] Anyone interested in a HW contest ???
by pmk@juno.com (Patrick M Kvitkauskas)
- 23) [27779] All's well that ends well!
by Jeff Grudin <grudin@pacific.vdbs.com>
- 24) [27780] Fireball in Fresno
by dave_epps@juno.com
- 25) [27781] NJ Fireball 40 on 10, question
by mikemo@ibm.net
- 26) [27782] mwattcpa@earthlink.net (Marty Watt): Re: FYB0: Winter Field
Day Stocking Stuffer Ideas
by pmk@juno.com (Patrick M Kvitkauskas)
- 27) [27783] Re: Charging Batteries in Parallel ???
by Tim Ahrens <tahrens@inetport.com>
- 28) [27784] Re: Eagle 10 Meter Rigs (a wee bit long).
by juanjope@intersil.es (Juan Jose Pastor Estornell)
- 29) [27785] Spice Demo
by Jeff Furman <jfurman@ocs.net>
- 30) [27786] FOX: N2SMH 12/18 log
by "George Heron" <gheron@idt.net>
- 31) [27787] OHR-100 Drift Project.
by we6w@juno.com (Ed Loranger)
- 32) [27788] Re: Ten-Ten question
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 33) [27789] Re: Simpson panel meters discon.
by n3fel@juno.com (Howard D Rubin)
- 34) [27790] Re: 160 Meter QRP
by "dor" <elbc@pivot.net>
- 35) [27791] MAC OS Logging Software
by K4AHK@ix.netcom.com
- 36) [27792] QRP 1999
by n3aaz-qrp@juno.com (John R Kirby)
- 37) [27793] FOX;N2T0
by Bruce Rattray <rattray@gpfn.sk.ca>
- 38) [27794] re: magazines and QRP columns
by MJC191@aol.com
- 39) [27795]
by n4js@pobox.com (John Sielke)
- 40) [27796] Re: First QSO!
by Ron Stark <ku7y@dri.edu>
- 41) [27797] digitizing audio
by Andy Fox <foxes@theriver.com>
- 42) [27798] Re: All's well that ends well!
by John Evans - N0HJ <jae@codenet.net>

43) [27799] Re: Anyone interested in a HW contest ???
by William-McShan@ouhsc.edu (Mike McShan)

44) [27800] RE: QRP Column
by Ron Stark <ku7y@dri.edu>

45) [27801] Anyone looking for a Logging program?
by "Alan Kaul W6RCL" <alan.kaul@worldnet.att.net>

46) [27802] MINI-L: Progress Report
by Bill Jones <kd7s@psnw.com>

47) [27803] Newest Info on DL-QRP PA
by Peter Zenker <Peter_DL2FI@csi.com>

48) [27804] DL-QRP-AG homepage updated
by Peter Zenker <Peter_DL2FI@csi.com>

49) [27805] MINI-L ? and a question
by ab5uacw@juno.com (Clifton W Sikes)

50) [27806] Re: digitizing audio
by "John J. McDonough" <jjmcd@tm.net>

51) [27807] Fishing Pole Info (more)
by dave_epps@juno.com

52) [27808] Fireball notes
by tom whalen <whalen@swcp.com>

53) [27809] xistor cross ref
by SABorns@aol.com

54) [27810] Old Radio gallery
by Tom Palmer <n1tp@worldnet.att.net>

55) [27811] halp on btl program with qrp++ (rtty)
by hamjoel@juno.com

56) [27812] Re: magazines and QRP columns
by "Harry T. Hurst, WA3PTG" <hhurst@delaware.infi.net>

57) [27813] Any FT-301 experts?
by "Peter Orban" <peter@peter237.imti.nrc.ca>

58) [27814] cross ref Thanks
by SABorns@aol.com

59) [27815] [Fwd: Microsemi Announces Availability of RF Transistors and RF MOSFETs]
by Pierre Constantineau <pierre@cmpe.ubc.ca>

60) [27816] Multiple copy
by "JUNIUS B FOX" <w5hir@gte.net>

61) [27817] Re: [Fwd: Microsemi Announces Availability of RF Transistors and RF MOSFETs]
by Chris Trask <ctrask@primenet.com>

62) [27818] Fireball'ers!???

63) [27819] Fireball 160!
by tom whalen <whalen@swcp.com>

64) [27820] RE: Simpson and and my first VOM
by "rohre" <rohre@arlut.utexas.edu>

65) [27821] Mysterious code groups on 28.044?
by "Bill Todd" <bill@willapabay.org>

- 66) [27822] Re: magazines and QRP columns
by Bill Jones <kd7s@psnw.com>
- 67) [27823] Re: Mysterious code groups on 28.044?
by Bruce Hopkins - KL7H <kl7h@eagle.ptialaska.net>
- 68) [27824] HAPPY HOLIDAYS
by w2bj@juno.com (Barry J Minsky)
- 69) [27825] re: w7zoi website
by af852@rgfn.epcc.edu
- 70) [27826] It works !!!!!
by Michael Melland <badger@vbe.com>
- 71) [27827] Re: Fireball 160!
by we6w@juno.com (Ed Loranger)
- 72) [27828] Multiple copy
by "JUNIUS B FOX" <w5hir@gte.net>
- 73) [27829] FOXes--TWO tonight :-)
by "W. D. (Doc) Lindsey" <70511.3041@compuserve.com>
- 74) [27830] Re: Charging Batteries in Parallel ???
by Ben Pooley <bpooley@bar.auracom.com>
- 75) [27831] Re: QRP Column
by K2UD@aol.com
- 76) [27832] Re: QRP Column
by mikemo@ibm.net

Date: Tue, 22 Dec 1998 00:25:36 GMT
From: mwattcpa@earthlink.net (Marty Watt)
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [27757] Re: FYBO: Winter Field Day Stocking Stuffer Ideas
Message-ID: <367ee615.89231821@mail.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

On Mon, 21 Dec 1998 15:16:30 -0700 (MST), Joe Gervais <vole@primenet.com>
wrote:

>Just a quick last-minute holiday reminder for=20
>FYBO Winter QRP Field Day stocking stuffers!
>
>1) Thermometer - Hard to give out your operating=20
> temperature without one!

Quick note: I'm having good luck at Office Supply Superstores =
(OfficeMax,
OfficeDepot, Staples, etc.) in finding small clocks, 24 hour capable. My
favorite is Casio model DQ-750, with 24 hour time, date and day display =

and
TEMPERATURE READOUT! No more confusion about "UTC Day/Date" or what the =
temp
is. Large display (time numbers are 1.5" tall). Overall size about =
4"x4".
Just checked the accuracy. About 1 sec. per month (not bad).

Under \$15, too!

--

72 es 73 de Marty, KM7W

-----=

Memphis, Tennessee

=

<http://home.earthlink.net/~mwattcpa>

VE -- NorCal #2031 -- ARCI #7514 -- QRP-L #0953 -- AK/QRP #098 -- Grid =
EM55ce

CODE WARRIOR(c) #29 -- Mobile CW -- "Taking Code on the Road with a =
Vengeance"

Date: 21 Dec 1998 18:45:49 -0600

From: "rohre" <rohre@arlut.utexas.edu>

To: qrp-l@lehigh.edu

Subject: [27758] "73" still arriving to subscription

Message-ID: <n1297856505.76358@msmailgw1.arlut.utexas.edu>

Those missing 73, if by subscription might want to check with the fulfillment service they use in N.J. I had some difficulty, with late delivery, and the magazine made good on all the back issues, but said they were also having trouble with the fulfillment house. Magazines don't handle their own distribution any more, just like everything is contracted out, even K. P. in the military is up for bid!

Don't know what the policy on newstand distribution is, but the bookstores around Austin have "73" every month, before I get mine in the mail! The December issue came last week.

Sad to say, all the major magazines are a bit sparse these days, with declining advertising revenue, and technical content, except for the QRP magazines.

72, Stuart K5KVH

Date: Mon, 21 Dec 1998 19:42:18 EST
From: Billjohn@aol.com
To: w4du@bellsouth.net, qrp-l@Lehigh.EDU
Subject: [27759] Re: 160 Meter QRP
Message-ID: <ed9a3fd7.367eeaea@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Does Kanga have a web site?

72,
Bill
K9YEQ

Date: Mon, 21 Dec 1998 17:56:27 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [27760] Dave Kreinberg, NR3E in QST
Message-ID: <367E8BCB.AE56C04B@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Check out page 20 of the January 1999 QST for a nice pic of Dave. He's
dooing something cool, too.....working with Scouts.

It's always nice to see a List member's photo in one of the mags.

--

72/73, de Roger, N7KT - QRP-L #62 - Zombie #006 - Mesa, AZ

Date: Mon, 21 Dec 1998 19:18:09 -0600
From: Michael Gusky <mgusky@bellsouth.net>
To: qrp-l@Lehigh.EDU
Subject: [27761] Elecraft QSO
Message-ID: <367EF351.F844541A@bellsouth.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Had my first QSO with an Elecraft K2 this past weekend. QSO'd with

Eric, WA6HHQ on 7041 when he was stress testing the K2 at 15 watts.
Gave him a 559. Tone was great and keying was excellent! Looks like
these guys are really checking the rig out before they go into
production.

Mike K5UX

Date: 21 Dec 1998 19:25:34 -0600
From: "rohre" <rohre@arlut.utexas.edu>
To: qrp-l@lehigh.edu
Subject: [27762] Ladder footing, from Fire Dept.
Message-ID: <n1297854103.19742@msmailgw1.arlut.utexas.edu>

Hi all,
I will save you the trip to the Firehouse and tell you what we do at our VFD.

When you raise the ladder, the beam, (side rails) should be far enough out
from the building that you can stand at the foot of the ladder and extend your
arms horizontally to grasp the rungs, without leaning over, and with your arms
comfortable, and not tight or bent. (Now if you have other than average
length arms, this does not apply!) If you are doing it right, another average
sized person will have his arms comfortable if he reaches the rungs, at the
same ladder angle you have set.

Climb the ladder, by grasping one rung with one hand and another with the
other hand; going up with a hand over hand motion, and using a different rung
for each foot. The idea was, on a wooden ladder to distribute your weight for
safety. Still a good idea to have no reliance on a single rung, as it may be
slippery, especially on metal rungs. That brings up climbing with proper
footware, to not slip on ladder rung or roof. Smooth leather soles are
discouraged.

If you are having to work off the ladder, such as attaching antenna bracket to
a house, etc., lock your legs into the ladder by having one leg go over the
rung near the knee, and then bring that foot back down to have the toe of the
shoe lock behind the rung near the foot. With such a lock, you don't have to
hold on at all, and have hands free to use tools.
You can turn around to bring something up from someone below, and in general
be safe.

It is a lot safer to use a rope over the top rung and raise up a bucket of
tools, screws, and hardware than to try to carry it up with you, unless you
have one of those belts like linemen use, with sacks on it for parts.

Have anyone raising stuff up stand away from under the bucket, in case you

drop a tool. It is NO fun if the tool is coming from the story above upon ones head.

And look for electric wires before raising your ladder, even if against the house!

Stay safe, and build good antennas,
Stuart K5KVH

Date: Mon, 21 Dec 1998 20:26:26 -0500
From: Jim Dolson <jdolson@iserv.net>
To: qrp-1@Lehigh.EDU
Subject: [27763] Charging Batteries in Parallel ???
Message-ID: <367EF542.4B3B@iserv.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gents.

I can't afford a couple of large deep discharge batteries, but I can get, for free, ten identical new 30 AH gell-cells. I'd like to wire them in parallel and run the shack off of 12v.

Can I charge them in parallel or would differences in battery chemistry, discharge rates, etc require that I charge them each separately?

Please respond directly to jdolson@iserv.net - my ISP routinely drops off the last half of the digest because it has gotten so large.

Thanks!

Jim
wb8zbd
jdolson@iserv.net

Date: Mon, 21 Dec 1998 20:24:22 -0500
From: mikemo@ibm.net
To: qrp <qrp-1@Lehigh.EDU>
Subject: [27764] Jersey Fireball on 10, sched?
Message-ID: <367EF4C6.6D@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I've got the coffee brewing now, so when I finish sending out all my money to those nasty people who send me bills every month, I'm going to build up my N.J. Fireball for 10 meters.

I've got to work tommorow, but how about an afternoon sched for Wednesday, Fireball to Fireball on 10 meters. I plan on using the TS-830 as a receiver (that's legal, right?). Maybe we can win the prize??? Knowing George and the gang at NJQRP I'll bet it'll be cool....

72 de ku4qo, Mike Maiorana, Palm Harbor, FL

Date: Mon, 21 Dec 1998 17:31:47 -0800
From: John Rollins <rexstout@uswest.net>
To: qrp-l@lehigh.edu
Subject: [27765] Re: MacOS Logging SW
Message-ID: <l03130300b2a4a51ffeba@[207.225.84.72]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Take a look at <http://www.g0oanint.demon.co.uk/>, there are a few logging programs there. There is also one at <http://www.blackcatsystems.com/> called Promethius, and it says it will interface with the rig control programs that you can download from that site.

Looks like most of them are pretty old, they probably work best on a Mac Plus or SE :-). And at least one of them is based on FileMaker Pro, so if you have any database software you might want to try that. And if you get REALLY desperate, you can either go grab a 286 and run some DOS software (lots of that stuff out there) or get SoftWindows or RealPC or whatever else will do PC emulation on a Mac. I kinda like SoftWindows, I have two copies here (one with Dos 6.2/Win 3.1 and one with Win95. A small tip here, other OS's don't seem to install well under SoftWindows, even WinNT didn't work...)

And of course you can try going through the ham-mac archives over at qth.net. But I can never seem to remember how to get into it... I'm pretty sure there is a web interface (www.qth.net I suppose), or you can send a message to majordomo@qth.net and type "help" in the body of the message. And be sure to subscribe too :-)

| <http://members.tripod.com/~jrollins/index.html> - Computers |
| <http://www.geocities.com/Area51/Lair/1681/> - Star Trek |
| orham@qth.net list admin KD7BCY |
| ham-mac@qth.net Portland, OR |

Date: 21 Dec 1998 19:38:15 -0600
From: "rohre" <rohre@arlut.utexas.edu>
To: qrp-1@lehigh.edu
Subject: [27766] Simpson panel meters discon.
Message-ID: <n1297853382.65548@msmailgw1.arlut.utexas.edu>

Sad news for those of us who enjoyed the good old analog panel meter, even with its possible faults.

Simpson Electric Company sent me some information on their digital meter line, and with it and Engineering Application Guide addendum, which said on its cover:

"Simpson has discontinued the following product lines:

Edgewise

Decibel meters

VU (volume level meters)

Frequency Meters (analog)

Galvonometers

Pyrometers"

This is pertaining to analog meter movements. Now an interesting point is that the Guide also contained lists of meters, including analog RF ammeters, but it is not clear from the above if they were discontinued previously or now.

Now down here, you can still find lots of analog meters, even QRP rig sized ones for \$1 if you haggle at swap meets.

Just another item on your junk box acquisition list!

72, Stuart K5KVH

Date: Mon, 21 Dec 1998 20:57:35 -0500 (EST)
From: James Skalski <jskalski@buffnet.net>
To: qrp-1@Lehigh.EDU
Subject: [27767] WTB simpson meters.
Message-ID:
<Pine.LNX.4.03.9812212050110.1218-100000@valhalla.valhalla.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Does any one have some Simpson 1327T meters.

I have been looking for some in the 0-500uA, 0-200uA and 0-1.5A DC range.
Also need some of the 1253 bezels.

73,

Jim N2go

Date: Mon, 21 Dec 1998 21:02:17 EST
From: Ab7wy@aol.com
To: qrp-1@lehigh.edu
Subject: [27768] Re: Balcony antennas, re Bilal
Message-ID: <c23aaafc7.367efda9@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 12/21/98 7:13:18 AM Pacific Standard Time,
kkanalz@optelinc.com writes:

<< I think you'll find that the Bilal "Isotron" antennas make
excellent AIR-COOLED DUMMY LOADS.

Go for a random wire or ANYthing else! >>

I didnt even get that far, when they sent me the brochures on the ISOTRON
thingy...i took one look at it and said 'forget it!' i didnt figure that
thing could do more than hold birdseed...it seems that i am right. i think it
might scare the birds away though.

ive been using a good, old-fashioned dipole in my livingroom (i really LOVE
my xyl) with great results...all it cost me was nothing, a buddy gave me an
old balun he no longer needed a number of years ago, i found an old spool of
copper wire...shielded in white, if you can believe it!! and a couple of
nails and im on the air.

im glad i didnt get curious about the sheet metal dollhouse looking
thing....i think the wife wouldve drawn the line at the sight of it,
well....im sure I wouldve drawn the line first. but i wonder how well it
works as a dummy load...hmm, have to see if the guys over at QST would test it
out and review it.

73....Adam, N7YA

Date: Mon, 21 Dec 1998 20:25:31 -0600
From: "Todd Foster, KD5FUF" <tef96a@timon.acu.edu>
To: qrp-1@lehigh.edu
Subject: [27769] First QSO!
Message-ID: <3.0.3.32.19981221202531.0094dbd0@timon.acu.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Guys (used in a gender-inclusive sense, of course),

I had to brag about my first QSO. I put together the Elmer 101 and started listening by just swapping capacitors 'til I found CW. Last Friday, I took the rig (in a lovely fruitcake tin) and the power supply to Radio Shack, asked if I could listen to one of their receivers, and used it to align myself into the novice sub-band. They all looked real curious about what was going on!

I didn't get any replies the first couple of days, but tonight I answered a CQ and was heard in Fort Smith, Arkansas (from Abilene, TX) by Richard, N5XM! He very kindly QRS'd, and we almost had a nice conversation. Except, right in the middle of my second transmission, a HUGE broadcast of music sat down right on top of us and I couldn't hear anything else! I believe this was around (or maybe just below) 7.12MHz. The signal's still there.

Anyhow, if anybody wants to practice their QRS, you're welcome in the novice band, from ca. 7.1-7.14 (I think that's about where I'm tuned; I'd appreciate signal reports and more precise tuning help!). Pretty exciting stuff. No debugging of the kit was done. No SWR meter, no RF wattmeter. An SW-40+, some copper wire and some old electric fence parts, a Whiterook key, a 10+ year old (noisy) RS 12V power supply, and a chintzy pair of headphones. What a hobby! What a great kit, Dave!

--Todd, KD5FUF

Date: Mon, 21 Dec 1998 21:34:37 EST
From: we6w@juno.com (Ed Loranger)
To: jdolson@iserv.net
Cc: qrp-1@lehigh.edu
Subject: [27770] Re: Charging Batteries in Parallel ???
Message-ID: <19981221.183603.4767.9.we6w@juno.com>

There is a circuit required so the batteries don't

cross-charge each other when you put in a dead battery. Very important you DON'T PUT THEM IN PARALLEL WITHOUT this controller.

It is in a past QST and the date is DECEMBER 1997.
Pages 36,37 and part of page 38.

"The Triple Trickler" by Mark Meyer, WU0L.

It uses a 4017 Decade counter, 555 timer, some IRF511 Power Mosfets, led's for monitoring, and 7812 regulator.

A fine, simple project.
MUST READING. Good stuff and just happened to have it by my side here at home...

Enjoy. 12/1997 QST. Pages 36-38.
72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>
Enjoying Ham Radio every day! Santa Rosa, CA.

On Mon, 21 Dec 1998 20:26:26 -0500 Jim Dolson <jdolson@iserv.net> writes:
>Hi Gents.

>
>I can't afford a couple of large deep discharge batteries, but I can
>get, for free, ten identical new 30 AH gell-cells. I'd like to wire
>them in parallel and run the shack off of 12v.

>
>Can I charge them in parallel or would differences in battery
>chemistry,
>discharge rates, etc require that I charge them each separately?

>
>Please respond directly to jdolson@iserv.net - my ISP routinely drops
>off the last half of the digest because it has gotten so large.

>
>Thanks!

>
>Jim
>wb8zbd
>jdolson@iserv.net
>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 21 Dec 1998 21:48:02 EST
From: KF4EIB@aol.com
To: qrp-1@Lehigh.EDU
Subject: [27771] Great Circle Map Download?
Message-ID: <bb5f93af.367f0862@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Gracious greetings to all,

I seem to remember in the dark far away memory there was a Great Circle Map program or such. Devious ways to plot more QSO's.....Hi Hi
Please refresh my cerebral matter as to the existence of such.
Thank you for your time. Have a safe and Happy Holiday...with some DX on the side?

73,
Gordon kf4eib

Date: Mon, 21 Dec 1998 22:06:25 -0500
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [27772] RE: QRP Column
Message-ID: <367F0CB1.BE8D9841@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Steve Ford's answer is not at all surprising and in my opinion a rather stock view within the radio hobby publishing industry. I should know, I hear it from several editors all the time. However, I would suggest that Steve and a lot of other folks start paying attention to the QRP world.

Looks at these basic facts.

QRP kits are selling like hotcakes with many "club" kits selling out before they are even kitted up.

QRP journals and clubs are growing daily.

QRP operating is essentially responsible for a growing interest in the alledgedly "dead" mode of CW.

Four Days in May and Pacificon remain high successes AND the just announced Atlanticon is poised on the verge of taking over the Hotel that its scheduled in.

Further, there is no more devoted group of radio hobbyists than those found in the QRP world. If any magazine is looking to attract readers for their advertisers, they could do a lot worse than add a QRP column to their pages.

If Steve Ford and anyone else in radio publishing is concerned over the dwindling revenues in the radio hobby, they better get wise quick and pony up to the QRP bar because folks, thats where the money is.

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

Date: Mon, 21 Dec 1998 22:09:49 -0500

From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>

To: NJQRP Club <njqrp@njqrp.org>, "qrp-l@Lehigh.EDU" <qrp-l@Lehigh.EDU>

Subject: [27773] SW-40+ Question

Message-ID: <367F0D7D.8A5B089B@home.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Has anyone who has built the Elmer 101 project (or any other SW-40) for that matter made use of a ten turn pot for the VF0????

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

Date: Mon, 21 Dec 1998 22:19:04 -0500
From: "Kevin F. Glynn" <kfglynn@prodigy.net>
To: <70511.3041@compuserve.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [27774] FOX: Need N2T0 FOX Log
Message-ID: <199812220320.WAA89270@pimout1-int.prodigy.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Doc and gang,

I will put out log tomorrow AM as I did with previous log; in the body of the message.

72 Kevin N2T0
Brooklyn, NYC
kfglynn@prodigy.net

Date: Mon, 21 Dec 1998 22:26:14 EST
From: Macstein@aol.com
To: tjarey@home.com
Cc: qrp-1@Lehigh.edu
Subject: [27775] Re: SW-40+ Question
Message-ID: <c23b08bb.367f1156@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Yup. I used the ten turn Spectrol from Mouser (#594-53411104). I had to swap out to shorter PCB stand-offs to make it fit in the enclosure. I also use Mike Gipe's K1MG Digital Readout/UTC clock, instead of the Freq-mite. Love this arrangement. I had to play with C7 to get the right tuning range when I added the Freq. Counter, but works FB. Don't forget to use the right side of R17 if you use the Freq. Mite (grin, wonder how I know THAT!!! - Thanks Dave!)

-MAC-
KF4KSM

Date: Mon, 21 Dec 1998 19:58:40 -0800
From: Mighty Mik <mitymik@hooked.net>
To: qrp-1@Lehigh.EDU
Subject: [27776] ICS502
Message-ID: <367F1844.8B83DE1E@hooked.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

anyone remember what this part is? It was mentioned sometime back here on the list, but the hard drive the info may be on is currently not online (computer died)

Date: Mon, 21 Dec 1998 23:03:23 -0500
From: "Ed Tanton" <n4xy@mindspring.com>
To: <jdolson@iserv.net>
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [27777] RE: Charging Batteries in Parallel ???
Message-ID: <001601be2d60\$04babd90\$01010101@n4xy>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I would get some nice Shottky or other low forward drop/hi current diode and diode isolate each of the batteries and the charger. That way no problems no matter what-as long as you can afford the drop.

73 Ed

Ed Tanton N4XY EMAIL: n4xy@mindspring.com
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770)579-3933

INTERESTS: *CW (99.5%) *QRP (QRP-L# 758)
*BoatAnchors *Test Equipment *Photography

"Think you can, think you can't:
either way you're right!" Henry Ford

Date: Tue, 22 Dec 1998 04:50:42 +0000
From: pmk@juno.com (Patrick M Kvitkauskas)
To: qrp-l@lehigh.edu
Subject: [27778] Anyone interested in a HW contest ???
Message-ID: <19981222.045043.14070.0.pmk@juno.com>

I was thinking today about all those HW rigs laying around that most of us have and don't operate but once or twice a year (some not at all). We have a nostalgia contest a few times a year with the RC sailplane contest crowd and they can be quite fun. I was thinking of maybe 1 or 2 of them a year here with the QRP-L group? I believe the HW series is quite popular with the QRP crowd and I know I will not let anymore of mine go. The few I have collected I have only sold one of them. It was to someone here on the list that gave us the 38 Special. I wonder if he ever got it hot rodded out as he had plans for hummm.

I think a simple exchange like call , HW series and name would be great. Not worry with signal report and also have multipliers for non modded rigs on both ends.

anyone might have suggestions or not even attempt it at all ???

This might give a lot of those owners out there a little incentive to blow off the dust, tweak them up and make a few contacts with one of the popular rigs of there time.

72/73 de Patrick KD4OBQ

AR

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or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 21 Dec 1998 21:08:59 -0800
From: Jeff Grudin <grudin@pacific.vdbs.com>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [27779] All's well that ends well!
Message-ID: <367F296B.1A6ED0AB@vdbs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1

Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

It started out to be one of those days.

First thing this morning, the kids start fighting. Tufts of hair and insults flying. It is a breath of fresh air to close the car door as I leave for work.

I get to work and sit down to plan out my day. Then nothing goes as planned. Everything takes longer than expected. People show up without appointments. The phone doesn't stop ringing. I just couldn't seem to get anything done.

As the day starts to wind down, I sit down at my desk with a stack of papers to complete. I turn on the radio. I installed it on my desk so that I could listen in on those evenings when things slow down a bit. I have a sort of resonant inverted V in the attic snaked between the heating ducts at about 15 feet. I never expect much from this setup. I tune to an S7 QSO in progress. Now I get started on those papers. Out of the corner of my ear I hear a guy banging away in easy copy CW, "QTH Sitka, AK." Hmm, pretty loud signal for 15M at 5:15pm. He continues, "Name John, Pse QSL." That is strange, usually DX stations don't ask for QSL's. Then he signs, " JT1KAA de KL7 ". What a surprise to hear Mongolia.

I wait for the reply. He signs with a very weak signal, barely copyable over the noise. The S meter isn't moving at all. There is probably a big pileup. I haven't got a chance. He finishes, then sends, "QRZ? DE JT1KAA." There is no pileup. No one is coming back to him! I send my call and listen. Just breaking out of the noise I hear "AC6KW 559". I let out a hoot and finish the QSO.

Hearing my scream, my new employee comes running to see what is the matter. She looks puzzled when she finds me sitting at my desk, surrounded by stacks of papers with a great big smile on my face. I guess it is time to tell her about my radio addiction.

--

73 de AC6KW <mailto:grudin@vdbbs.com>
Jeff Grudin, DVM Web Add: <http://www.vdbbs.com/~grudin>
Ocean Animal Clinic / Cat Clinic of Santa Cruz - Santa Cruz, California
Norcal QRP #1292 QRP-L #16 ARS #351 AR Qrp #131

Date: Mon, 21 Dec 1998 21:11:04 -0800
From: dave_epps@juno.com

To: qrp-1@lehigh.edu
Subject: [27780] Fireball in Fresno
Message-ID: <19981221.211104.-67397.1.dave_epps@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Got the Fireball-40 working. "Sorta" For some reason if I put any kind of load other than an antenna it won't put out anything. I wanted to measure the output with the WM-2, but no luck.

If you are building one and having problems getting output on 40 mtrs put an antenna on it. It worked for me.

dave ab5pc fresno, ca.

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or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 22 Dec 1998 00:05:31 -0500
From: mikemo@ibm.net
To: qrp <qrp-1@Lehigh.EDU>
Subject: [27781] NJ Fireball 40 on 10, question
Message-ID: <367F289B.60000@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ok, it took about an hour, and the kit is done. Nice job fellas!!

Built mine for 10 meters. I followed table 1 in the instructions to build the output filter for 10 meters. I used 9 turns on the t37-2 cores for .3 uH, 230pf and 330pf caps from the junk box. My output on 10 meters is about 10 microwatts Hmmm, that's not right. I tried to compare the filter values given with some other references and they look closer to 20 meters. I jumpered it for 20 meters and BAM!, 10 milliwatts. Could table 1 have a typo?

I can't wait for my first QSO! Tnx NJQRP club!
72 de ku4qo, Mike Maiorana, Palm Harbor, FL

Date: Tue, 22 Dec 1998 04:54:39 +0000

From: pmk@juno.com (Patrick M Kvitkauskas)
To: qrp-1@lehigh.edu
Subject: [27782] mwattcpa@earthlink.net (Marty Watt): Re: FYBO: Winter Field
Day Stocking Stuffer Ideas
Message-ID: <19981222.052606.14070.1.pmk@juno.com>

----- Begin forwarded message -----
From: mwattcpa@earthlink.net (Marty Watt)
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: Re: FYBO: Winter Field Day Stocking Stuffer Ideas
Date: Tue, 22 Dec 1998 00:25:36 GMT
Message-ID: <367ee615.89231821@mail.earthlink.net>
References: <199812212216.PAA28474@usr08.primenet.com>

On Mon, 21 Dec 1998 15:16:30 -0700 (MST), Joe Gervais <vole@primenet.com>
wrote:

>Just a quick last-minute holiday reminder for
>FYBO Winter QRP Field Day stocking stuffers!
>
>1) Thermometer - Hard to give out your operating
> temperature without one!

I don't think I would want to know how cold it was.

72
Patrick KD4OBQ

AR

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or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 21 Dec 1998 23:32:26 -0600
From: Tim Ahrens <tahrens@inetport.com>
To: qrp-1@lehigh.edu
Subject: [27783] Re: Charging Batteries in Parallel ???
Message-ID: <367F2EE9.62E20E0B@inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

FWIW, I have a laptop battery pack.. about 1.5 thick x 12 wide, by

8" deep, and after opening the package, there were two gel cells, the cell phone type, I think 2.x Ah, and they were in parallel. No diodes, nada. Seems to charge & work OK, and after 2 months of non use, the led 'meter' still shows 75% charged. I'd feel more comfy if they did have some isolation diodes, but guess that would have made the charging circuitry a tad more expensive. Maybe the weaker of the two batteries only pulls the good one down to it's level, then stops. dunno

cuall

Tim W5FN

Date: Tue, 22 Dec 1998 06:35:16
From: juanjope@intersil.es (Juan Jose Pastor Estornell)
To: kd1jv@moose.ncia.net, qrp-1@Lehigh.EDU
Subject: [27784] Re: Eagle 10 Meter Rigs (a wee bit long).
Message-ID: <3.0.3.16.19981222063516.2ebf3268@nico.intersil.es>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

At 16:17 20/12/98 +0000, you wrote:

>>=20

>> Copper has a "EURO 3900" AM/FM/SSB/CW rig for \$129. Anybody know anything
>> about it? There is plenty of info about it, but nothing about exactly=
what

>> frequencies it covers.

>>

>I have one of thier catalogs and it don't give the freq range either.=20

>However, if it is similer to the other 10M rigs they have, they all=20

>cover 28.315 to 28.755 MHz in 10 Khz steps. (40 channels)

>

>> That price is tempting.

>

>That's for sure, if they actually have them in stock. Be sure to get=20

>the optional "echo board" too, hi.

>

>BTW, I ordered one of the Uniden PC122XL's from Copper (not in stock,=20

>will have them soon, maybe) It's an \$89.95 SSB CB that I hope will=20

>convert to 10 or 12 meters with just an xtal change. We'll see, if=20

>it ever shows up!=20

>

>=20

>72,

>Steve, KD1JV in the white Mountains of New Hampshire
>"melt solder"
>

Dear QRP-L friends:

This QRP guy from Spain strikes back!. Well, as a matter of fact I am using a C.B.-like transceiver for the 10 meters band. It is a President Lincoln, just the Uniden 2830 renamed, and it covers from 26.000 to 29.999. I must admit, I've used it in C.B. SSB pirate segments before becoming a radio-amateur. Mine runs 8 watts max. output in AM, FM and CW (I usually set it to 3 watts) and the same peak power in USB/SSB. By the way, I'm beginning to collect states for the WAS in 28.110, being 15:00 to 17:00 UTC the better hours -skeds are welcome, hi hi-.

Regarding to that kind of rigs receiver, I must say it has a very wide I.F. filter, about 6 KHz for SSB/AM. That would be a problem when the band becomes similar to 40 meters (like last ARRL 10 meters test). I have heard both sidebands moving the RIT control, hi hi. I have also used my Lincoln with a converter for 40 meters and I had to use an audio filter to have a quieter reception, could not work without it!.

Referring to the EURO 3900, I guess it is a clone of those popular "STALKER SUPER-STAR 3900", or the more U.S. popular Cobra 148GTL-DX. The good thing with them is they usually cover from 26.515 to 28.305 in six segments, so you can work the CW segment and hear the beacons with no modifications (maybe not so good as we get so many pirate QRM ...) and the bad one is that it is channelized, so you have to get a table or chart of channels/frequencies to know where you are tuned -I own one, will try to get it scanned for u-. Other bad thing is that there are only 40 channels for every 450 KHz segment, thus leaving 5 "black channels". Modifications to have continuous coverage are easy, as I've seen some transceivers with them, but I don't know how to do it. And finally, it is also easy to kill the lower segments replacing crystals so getting new "upper" segments way into the 10 meters band.

Hope it helps you all, and also hope to get some 2 x QRP trans-atlantic contacts By the way, the SSBers send me e-mail to try a frequency between 28.900 and 29.100, as my licence class is still novice and I'm not allowed to use SSB outside that segment -and quite bored to find nothing but LU/argentinian stations there, sort of transequatorial propagation between south tip of the American continent and Europe-.

Best wishes for the "Yuletide" and a happy new year with conditions raising in the upper HF bands. Or, as I send in CW, HVE MRY XMAS ES HPY NEW YR 99, hi hi.

P.D.: Hope you like my Christmas signature in spanish, valencian, polish (do widzenia i Queue Our Pea, hi hi), welsh and irish.

Meet me on the airwaves!

73, 72 de Juanjo, EC5ACA/QRP. EA-QRP #104, G-QRP #9742, QRP-L #1662.

=09

Feliz Navidad	Bon Nadal
y	i
Pr=F3spero A=F1o Nuevo	Feli=E7 Any Nou
Wesol/ych Swiat	
oraz	
Sczeszliwego Nowego Roku	
Nadolig Llawen	Nollaig Shona
a	agus
Blwyddyn Newydd Dda	Athbhliain faoi mhaise duit

Date: Mon, 21 Dec 1998 23:06:54 -0800 (PST)
From: Jeff Furman <jfurman@ocs.net>
To: aweiss@usd.edu
Cc: qrp-l@lehigh.edu
Subject: [27785] Spice Demo
Message-ID: <Pine.LNX.4.04.9812212213230.26082-1000000@ocs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Ade, I use a demo of MicroCap V that is available at www.spectrum-soft.com. It has schematic capture and analysis plotting integrated. Since it's a demo, it has very few included models (it has 2N2222A, '3904, '3906, '4403 and some others). I have used the transient analysis to watch oscillators start up and limit, allowing me to fiddle with agc schemes; and the ac analysis for active and passive filters. You can plot impedances as a function of frequency and parameter steps, useful for matching networks. It does not have a direct capability for Smith Chart plots as I understand ARRL Radio Designer does, but there is probably a way to generate such plots using the (well-known) Smith Chart mapping functions. I usually just squint at the Bode (phase-magnitude) plots. (As an aside, I have analyzed an adjustable impedance matching network by writing a C program to generate the complex transformed impedance as well as the complex coordinates of a skeleton Smith Chart and plotted the long table using Excel just for its x-y plotting utility.) But, back to Microcap: I purchased earlier student editions, each new version gets better--now the demo is free on the web. With the schematic capture, I seldom look at the

spice input lists unless I import a manufacturer's model I can't live without. It may export a spice net list, but I can't remember. This demo version is not functionally crippled--stuff may be saved and printed, etc., but the network complexity is limited to 50 components and 100 equations, which is way beyond my usual doodling in the backs of junk mail envelopes, not a critical limitation most of the time. I would say the price is right for a self educational venture. P.S. I do own and use a real soldering iron too.

Jeff, KD6MNP.

Date: Tue, 22 Dec 1998 01:12:55 -0500
From: "George Heron" <gheron@idt.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [27786] FOX: N2SMH 12/18 log
Message-ID: <021901be2d74\$22ec99a0\$403b84a9@herong.dialogic.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

I apologize for the delay in posting my log from December 18. My thanks to George, N2APB, for graciously posting this to the list for me in my time of computerlessness. Boy, you don't realize how dependent you are on these things until yours goes south.

To summarize, the hunt on Thursday, Dec. 18 (UTC) was quite a learning experience. The band seemed to fold up like a tent about an hour and 20 minutes into the event. For the first hour, the pileup was loud and strong. The Texans sure did dominate 16 out of 51 QSOs overall! In fact, I may have set a single-foxhunt record for working Texans named Bill (four).

I've always had a lot of respect for the foxes and I have much more now than ever. Pulling calls out of a pileup like Thursday's is very, very tough. Early on, I found myself sending QRZ? mostly because I couldn't force my brain to single out any particular signal. Then, as the band seemed to go soft, I was asking for lots of repeats. Actually, propagation was somewhat fickle all evening. I'd answer a station who was perhaps 569 or 579 when they called. When they sent their exchange, they'd inexplicably drop to 449 or less and suddenly pop back up for the repeat. That's 40 meters for you, I guess.

I started at about 7.041.7 MHz and hung in there until the SSB splatter and other QRM got to be too much. I was finally forced to

QSY at 0220 by a QRO station who was almost on top of me. That was something I really hoped I wouldn't have to do. Oh well

So here goes. Thanks again to everyone who made it and to those who tried and didn't. We'll have another go at it in January and I would like to think that I'll be better prepared for the melee.

Let me know of corrections at dmaliniak@penton.com. I'm hoping that by the time we break for Christmas, I'll be able to access my mail again.

TIME STATION FOX HOUND HOUND HOUND HOUND
GMT WORKED RST RST QTH NAME QRP-L # or PWR

0100 N4VCT 559 559 KY Pete 1721
0102 AI4Y 559 559 FL Paul 1795
0103 N5TW 579 559 TX Tom 1474
0104 K5JHP 339 559 TX Bill 825
0106 VE5RC 229 559 SK Bruce 886
0107 N0EA 559 559 MO Wayne 1058
0109 W5HNS 579 559 TX Henry 178
0110 N1FN 559 559 CO Marshall 153
0111 AB5UA 559 559 OK Clif 478
0112 AI4CW 469 559 AL Don 1670
0114 KU7Y 559 449 NV Ron 17
0116 N0AR 559 579 MN Scott 1455
0119 NQ7X 559 559 AZ Floyd 343
0121 W4SB 599 559 TX Bill 1279
0123 N1TP 579 559 FL Tom 1317
0124 K0EVZ 559 559 ND Doc 861
0125 AF5Z 579 559 TX Bob 984
0126 WA9PWP 569 559 WI Paul 127
0127 AB5WX 559 559 TX Dave 1818
0130 W5JAY 599 559 AR Jay 1201
0131 KG4ADU 579 579 GA Chuck 1785
0133 K5ON 569 569 NM Gary 770
0135 W2XN 579 559 FL Fred 1728
0137 K5ZTY 449 559 TX Bill 473
0138 K5LN 559 559 TX Bill 1794
0139 KB9IUA 539 559 IL Kevin 384
0142 K4JPN 579 559 GA Frank 1809
0145 AB7MY 559 559 AZ Gary 571
0146 AA5TA 559 559 TX Larry 1245
0147 KQ5U 339 559 TX Terry 1603
0150 WB9LKC 569 569 WI Ray 8
0152 W0CH 559 579 MO Dave 618
0153 K1MG 559 559 CA Mike 614
0154 K5OI 559 559 TX Tim 73
0156 AK7Y 559 449 AZ Greg 1693

0158 KD5CMN 449 559 TX Mike 1328
0200 KQ0I 559 449 IA Mark 625
0201 KJ5X 579 589 TX Jim 10 W
0204 KS4L 579 559 AL Randy 468
0206 K4BYF 559 559 FL Jack 1782
0207 N0UR 559 559 MN Jim 799
0209 K6VNX 559 449 CA Arlen 5 W
0213 KK5LD 559 449 TX Dan 5 W
0214 N5WAI 559 449 OK John --
0219 VE3FAL 559 449 ON Fred 1463
0225 N5LU 559 449 OK Bill 5 W
0228 W2BJ 569 559 GA Barry 5 W
0236 W5YR 569 559 TX Geo 1374
0241 KT4PM 329 449 FL Joe 2 W
0247 W5TA 579 559 TX Dick 60
0248 W5UP 559 559 OK Glen 21

51 QSOs.

72, David N2SMH
Glen Rock, NJ

Date: Tue, 22 Dec 1998 03:07:27 EST
From: we6w@juno.com (Ed Loranger)
To: qrp-l@lehigh.edu
Subject: [27787] OHR-100 Drift Project.
Message-ID: <19981222.000853.4767.10.we6w@juno.com>

Hi gang, even with all my pixie2 experiments
today I was able to do some good work on the
OHR-100 Drift project.

The insulating foam is extremely nice and I
didn't even have to re-calibrate the rig after
application. I did cut away a small amount of
the foam after it hardened so I could eventually
access the tuning caps. This was easy and clean.

I removed the temporary soldering pins at one of
the capacitor locations which had served as a
capacitor testbed. This saved me the lifted-pad
problem I might have experienced should I have been
soldering directly to the board throughout.

I did 3 tests.

One was a time for stable frequency when undergoing a temperature change of 20 degrees from 50 degree fahrenheit garage, to 70 degree house.

2nd test was room temperature rig. I placed a 8x8 inch block of blue-ice (tm) wrapped by a towel in a single layer, on top of the rig. I plotted the peak of the CW VFO signal every 1 degree of temperature drop over 45 minutes /13 degrees.

3rd test, remove ice/towel and allow rig to reach room temperature which was 63 degrees thru 70 degrees.

In all tests, the temperature prob was inside the closed radio supported by one of the audio volume wires to position the sensor withing 2 inches of the VFO area.

Results test #1 (20 degree settling time). The radio moved 220 Hz over the 20 degree temperature swing.

Results test #2: Blue Ice on top of rig.

I threw out first 3 degree change and plotted the last 10 degrees as the temperature dropped:

76.6 deg to 73.6 deg ==	+22 Hz
72.6 deg ==	+58
71.6 deg ==	+105
70.6 deg ==	+155
69.6 deg ==	+205
68.6 deg ==	+275
67.6 deg ==	+330
66.6 deg ==	+408
65.6 deg ==	+468
64.6 deg ==	+530
63.6 deg ==	+600

Error on temperature is +0/- .2 degrees.

Error on frequency is +/- 4 Hz.

Time for 13 degree change in temperature = 45 minutes.

Performance: 58 Hz/Degree Fahrenheit.

Test #3:(Removed Icepack and allowed rig to acclimate)

Time for 7 degree temp change: 1 Hour.

Performance:400 Hz/7 Degrees = 57.1 Hz/Degree Fahrenheit.

At any one temperature there is absolutely no drift.

All drift is temperature related external to the rig.

Summary of latest information:

Original unit without N150 Capacitors and NO foam insulation

around L113 VFO Toroid: Performance: 300 Hz/1 Degree.

Current 58 Hz/1 Degree.

Further work: W5JH/Jerry is kindly sending some small pF N750 caps for fine tuning work. These will get the job done. The unit still drifts down when warmed and up when cooled. Negative temperature compensating capacitors are still needed. These small pF units are needed and coming.

TIPS for anyone wanting to improve performance of their radio regarding thermal related drift:

Lay all VFO capacitors down tight to the board, leave minimum space between the part and the board. This reduces frequency change due to wind and keeps all of the capacitors near the average board temperature.

2) Use Foam insulating compound, I used Polycel Expanding foam manufactured by: Macklanburg-Duncan and available at HomeBase and probably other hardware stores. Wear rubber gloves and goggles. Nasty, sticky stuff when uncured, very easy and safe to work with when cured 2 to 6 hours. With toroid supported by the foam, it tracks the negative coefficient capacitors better and I measured a 5 fold improvement in wind draft resistance drifting. (Data Not reported or recorded.) It helps stabilize the toroid.

Conclusion: Just like knowing the parameters of your antenna, (feedline length, antenna length, etc) even if you suspect nothing, it is good to measure the performance of your rig and ensure you know its performance. When something goes wrong, you will have a reference of where it should be. Additional benefits are that you may discover a simple fix to an unknown problem. Pay attention to chirp and drift reports. Take action if possible. Do what you can to take accurate data. Simple tests like using the blue Ice give you a controlled temperature drop. Also if you have time, one fine fellow mentioned placing your rig in a box inside another box and insulation between the boxes. This is great for measuring without the effect of drafts for better accuracy. I can see that a hot water bottle or the blue Ice inside such a box makes a great temperature chamber, and you can buy inexpensive temperature probes to pack in there as well.

This concludes my OHR-100 Drift reports. I will probably post once more when I reached what I believe the best in thermal performance from this rig.

I no longer fear a 300 Hz drift with small temperature changes in my shack (1 degree Fahrenheit). With current performance it would take a full 7 degree temperature change for 300 Hz drift. I have already tested that such temperatures are not generated within the rig to any significant degree. Rather the 60 Watt shack light and external breezes or sunlight have major influences.

Best Regards to all.
-Ed Loranger WE6W

72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>
Enjoying Ham Radio every day! Santa Rosa, CA.

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or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 22 Dec 1998 05:46:10 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: Randy Moore <wr.moore@worldnet.att.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [27788] Re: Ten-Ten question
Message-ID: <Pine.GS0.3.96.981222054535.4092C-100000@moe.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

For detailed 10-10 information, see the URL in the signature line of this message.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off)	(423)	974-7215	
1434 High Mesa Drive	/	\	\	\	----	/\	---	(Hm)	(423)	938-6335
Knoxville, Tennessee	/\	\	\	\	/	/		(FAX)	(423)	974-3509
37938-4443 USA	/	\	\	\						cebik@utk.edu
10-10 #41159	tenten-1	coordinator			http://www.lehigh.edu/lists/tenten-1/					

Date: Tue, 22 Dec 1998 06:57:22 -0500
From: n3fel@juno.com (Howard D Rubin)
To: rohre@arlut.utexas.edu
Cc: qrp-1@Lehigh.EDU
Subject: [27789] Re: Simpson panel meters discon.
Message-ID: <19981222.065828.8726.0.n3fel@juno.com>

How can anyone go through life without an analog meter? I can remember my earliest experiences in electronics are with a meter -- I was about 5 yrs old then and had just discovered the Allied Electronics and Lafayette Radio catalogs. I became fascinated over the ability to move a pointer with just a battery, a wire and a resistor. I guess I rediscovered ohm's law before actually reading about in the magazines much later. BTW, I still own my very first VOM (about 40 years old) from LR Co, and smile when passing Syosset, NY on business trips.

Howard D. Rubin, N3FEL
Editor, X-Mitter
Penn Wireless Association
Bucks County, Pennsylvania
USA

On 21 Dec 1998 19:38:15 -0600 "rohre" <rohre@arlut.utexas.edu> writes:
>Sad news for those of us who enjoyed the good old analog panel meter,
>even
>with its possible faults.
>
>Simpson Electric Company sent me some information on their digital
>meter line,
>and with it and Engineering Application Guide addendum, which said on
>its
>cover:
>"Simpson has discontinued the following product lines:
>Edgewise
>Decibel meters
>VU (volume level meters)
>Frequency Meters (analog)
>Galvanometers
>Pyrometers"
>
>This is pertaining to analog meter movements. Now an interesting
>point is
>that the Guide also contained lists of meters, including analog RF
>ammeters,
>but it is not clear from the above if they were discontinued
>previously or
>now.

>
>Now down here, you can still find lots of analog meters, even QRP rig
>sized
>ones for \$1 if you haggle at swap meets.
>
>Just another item on your junk box acquisition list!
>
>72, Stuart K5KVH
>

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or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 22 Dec 1998 07:11:44 -0500
From: "dor" <elbc@pivot.net>
To: <B1ljohn@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [27790] Re: 160 Meter QRP
Message-ID: <00da01be2da4\$588d6320\$0100007f@ours>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: <B1ljohn@aol.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Monday, December 21, 1998 7:42 PM
Subject: Re: 160 Meter QRP

>Does Kanga have a web site?
>
>72,
>Bill
>K9YEQ

Yes they do it's at <http://www.bright.net/~kanga/kanga/>
73 dave kc1di

Date: Tue, 22 Dec 1998 07:13:50 -0500
From: K4AHK@ix.netcom.com
To: qrp-l mail <qrp-l@Lehigh.EDU>
Subject: [27791] MAC OS Logging Software
Message-ID: <367F8CF9.60A8@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

See Hamlog 2.0 for Macintosh at the following web page:

Note: requires a copy of FileMaker Pro.

<http://www.mindspring.com/~kmb/hamlog/hamlog.html>

Bill - K4AHK

Date: Tue, 22 Dec 1998 08:08:56 -0500
From: n3aaz-qrp@juno.com (John R Kirby)
To: qrp-l@Lehigh.EDU
Subject: [27792] QRP 1999
Message-ID: <19981222.080903.-100853.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Getting on the air

>>>"...operating your rig is the first step..."<<<, credit,

Ed Loranger, WE6W

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Date: Mon, 14 Dec 1998 19:13:28 +0000
Subject: Elmering and Operating.

"And it's only going to get better.", credit,

Richard Fisher, KI6SN
WORLD RADIO, Jan. 1999, pg 54

Well said, gentleman, thank you...

Remember ten is getting better every day too!
Happy QRP New Year

John
N3AAZ

.

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or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 22 Dec 1998 07:23:06 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-l@LeHigh.EDU>
Subject: [27793] FOX;N2T0
Message-ID: <Pine.LNX.3.95.981222072156.27923B-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I seem to have missed the N2T0 fox hunt log....anyone have it and can
forward it to me for the Team scores please?...tnx and Happy Holidays
everyone!...

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club "QRP! How sweet it is!"

Date: Tue, 22 Dec 1998 10:14:54 EST
From: MJC191@aol.com
To: qrp-l@Lehigh.EDU
Subject: [27794] re: magazines and QRP columns
Message-ID: <510268d2.367fb76e@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

72, 73 and happy happy to all
NA1XX Mike // North Weymouth MA
ORP-L #1588

I just called (10AM Tuesday) and had no problem getting a room! See ya'll there!

```
> No debugging of the kit was done. No SWR meter, no RF wattmeter. An
> SW-40+, some copper wire and some old electric fence parts, a Whiterook
> key, a 10+ year old (noisy) RS 12V power supply, and a chintzy pair of
```

> headphones. What a hobby! What a great kit, Dave!
>
> --Todd, KD5FUF

Congratulations Todd!!

This is what it's all about folks.... don't try to overthink
this whole hobby.... just grab some wire and get on the air!

This is a great example of why amateur radio will survive!

I hope to hear you on the air Todd,

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Tue, 22 Dec 1998 08:39:10 -0700
From: Andy Fox <foxes@theriver.com>
To: QRP <qrp-l@Lehigh.EDU>
Subject: [27797] digitizing audio
Message-ID: <367FBD1E.88848AAC@theriver.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi,

Does anyone know of software (for a soundcard) that will enable one to
digitize an audio stream, then allow playback at a slower speed while
preserving the original pitch? Seems like this would be a DSP project
that somebody else has already undertaken...

Win95, NT or Linux is preferred.

Thanks in advance, and 72 de Andy, KK7HV

Date: Tue, 22 Dec 1998 08:45:47 -0700

Jeff Grudin wrote:

> It started out to be one of those days.

Jeff,

john

Norcal #262 QRP-L #219 QRP-ARCI #8303 NE-QRP #213 CQC #045
CQrp #15 NJ-QRP #50 AK-QRP #52 NW-QRP #454 FISTS #3184
Personal Web Page: <http://www.geocities.com/capecanaveral/9773/>

Sounds like a good idea for a fun contest. You are hereby elected to coordinate it, Patrick. ;-)

72 and happy holidays to all,
Mike N5JKY
Edmond, Ok
HW 8 owner

>I was thinking today about all those HW rigs laying around that most of
>us have and don't operate but once or twice a year (some not at all).
>We have a nostalgia contest a few times a year with the RC sailplane
>contest crowd and they can be quite fun. I was thinking of mabye
>1 or 2 of them a year here with the QRP-L group? I believe the HW
(snip)

Date: Tue, 22 Dec 1998 08:28:46 -0800 (PST)
From: Ron Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [27800] RE: QRP Column
Message-ID: <Pine.SOL.3.96.981222080547.24702B-1000000@vortex.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 21 Dec 1998, T.J. "SKIP" Arey N2EI wrote:

> Looks at these basic facts.
>
> QRP kits are selling like hotcakes with many "club" kits selling out
> before they are even kitted up.

Yes. But most are at or well below \$100.

> QRP operating is essentially responsible for a growing interest in the
> alledgedly "dead" mode of CW.

I like to think that this is right. However, the major magazines
have almost no use for CW. To them it's just a silly block keeping
more people out of the hobby and in turn keeping their sales down!

Nope, I don't think CW is a selling point for the "big boys" of
the magazine world.

> Further, there is no more devoted group of radio hobbyists than those
> found in the QRP world. If any magazine is looking to attract readers

> for their advertisers, they could do a lot worse than add a QRP column
> to their pages.
>
> If Steve Ford and anyone else in radio publishing is concerned over the
> dwindling revenues in the radio hobby, they better get wise quick and
> pony up to the QRP bar because folks, thats where the money is.

While I think they should have a good QRP column, I don't think we are the only group that is devoted to our little corner of the hobby.

And I would disagree with QRP being where the money is. How many QRPers spend \$5000 to \$10000 on their antennas? How many QRPers spend \$5000 to \$10000 on rigs? It's common for many contesters and DXers to spend that and more!

I see the reason that the major magazines should have a QRP column is to encourage the new folks to have fun! FUN... that's what builds the numbers in the long run. And that is what QRP really is, FUN.

It's a place to learn about amateur radio, how to operate, how the rigs work and etc. All without having to sell the farm to get started!

QRP is also the place where the Old Timers who have worked em' all come to put the fun back in it!

Look at what NorCal has done at PacCom.... they are showing everyone there what fun looks like! FUN.... that's the magic word.

That's what the big magazines need to understand. If they want to sell magazines, they need to show how much FUN it is to read their magazine!

And as the subscription numbers go up, so does the ad money.

Anyway, this is just my opinion!

OK, back in my hole,,,,,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Tue, 22 Dec 1998 08:34:07 -0800
From: "Alan Kaul W6RCL" <alan.kaul@worldnet.att.net>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [27801] Anyone looking for a Logging program?
Message-ID: <19981222163415.LTEU1406@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

If you're looking for a logging program, you might try Hyperlog 4.0 (tm) available for a download on the web. The download is "the" program with the exception of a registration code -- which means it can be tried out for a limited number of QSO's before it expires. I started with Hyperlog 1.xx (tm) back in 1991 and have stayed with it thru the years. I have about 10.5k QSO's in the database -- a long way from the "...2-billion QSO's possible..." claims from author Joe Speer.

It interfaces to both VHF and HF packet easily, allows a computer to control your rig (if you have one of the computer-compatible HF rigs and/or packet setups), imports contest data from the major contesting programs (I use CT 8.50), etc.
You might want to check it out.... cost under \$50....for new user, only \$20 to upgrade.

Check it out at url: <http://www.mindspring.com/~hypersoft/index.htm>

or Web Site - <http://hypersoft.home.mindspring.com>

Usual 'not affiliated with....etc.' applies.

73/72 de alan

Alan Kaul, W6RCL, LaCanada-Flintridge, CA
<http://home.att.net/~alan.kaul/qrp.html>
alan.kaul@worldnet.att.net
w6rcl@amsat.org

Date: Tue, 22 Dec 1998 08:42:19 -0800
From: Bill Jones <kd7s@psnw.com>
To: qrp-l@lehigh.edu
Subject: [27802] MINI-L: Progress Report

Message-ID: <367FCBEB.F17C6779@psnw.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Friends,

Members of the MINI-L design team have already been hard at work (behind the scenes) working out some technical details. However, everybody will slow down for a few days while the holidays take their toll on our time and wallets.

On a personal note, I am extremely gratified to see the interest in simple rigs like the Fireball 40 and the Pixie II. The "Novelty Rig" contest is also going to be a sure-fire winner, too. I am confident the MINI-L will eventually stake its own claim to fame somewhere between the 40-9er and the NorCal 20. We live in exciting times.

--

=====
Bill Jones - KD7S <><
Sanger, California
<http://www.psnw.com/~kd7s>
=====

Date: Tue, 22 Dec 1998 17:43:25 -0000
From: Peter Zenker <Peter_DL2FI@csi.com>
To: "'QRP-L via PoP3'" <qrp-l@lehigh.edu>
Subject: [27803] Newest Info on DL-QRP PA
Message-ID: <01BE2DD2.D998BB80.Peter_DL2FI@csi.com>

Today I got the information, that the DL-QRP-PA will be available at FUNKAMATEUR Internet Shop
<http://www.funkamateur.de>
at 15 January 1999.
They have the PC Boards in house now. The SMD parts will be soldered just after Xmas.

72 de Peter, DL2FI

Date: Tue, 22 Dec 1998 17:44:08 -0000

From: Peter Zenker <Peter_DL2FI@csi.com>
To: "'QRP-L via PoP3'" <qrp-l@lehigh.edu>
Subject: [27804] DL-QRP-AG homepage updated
Message-ID: <01BE2DD2.DF425140.Peter_DL2FI@csi.com>

Today I posted an update of the DL-QRP-AG Homepage

http://ourworld.compuserve.com/homepages/peter_dl2fi

Now available are more Informations about our next kit, the 50 MHz transceiver, our current project, a multiband plugin module shortwave transceiver based on a NE602 direct conversion mixer. Also you will find some first impressions about our absolute new project which is in preparation for the spring issue of QRP-Report: The world smallest ATU, A subminiatur SWR Meter (fits into a S38 or even in smaller enclosures)

Also I updated some general information about DL-QRP-AG and our Magazin, the QRP-Report.

I hope you enjoy it.

Happy Xmas and a happy new year to all my QRP fellows reading this mail.

Looking forward to many common future activities

72 de Peter, DL2FI

Date: Tue, 22 Dec 1998 11:15:07 -0600
From: ab5uacw@juno.com (Clifton W Sikes)
To: qrp-l@Lehigh.EDU
Subject: [27805] MINI-L ? and a question
Message-ID: <19981222.111508.6734.2.ab5uacw@juno.com>

Hey folks,

I've been off the list for a few weeks, due to a heavy work load. Bill, what is the MINI-L?

A friend just gave me his old Butternut HF6V, complete with the 160 coil. Trouble is, it was a casualty of our last ice storm. I can salvage lots of goodies from it, but the doorknob cap is missing from the lower mount of the 160 coil. Does anyone know the value of this cap? I've been on 160, a little, the past

month. Fun
band, and would like to see just how bad the Butternut would be, ha!

Thanks,

Clif AB5UA

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or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 22 Dec 1998 13:30:45 -0500
From: "John J. McDonough" <jjmcd@tm.net>
To: <foxes@theriver.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [27806] Re: digitizing audio
Message-ID: <199812221828.1455000@is1.tm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

> From: Andy Fox <foxes@theriver.com>

>

> Does anyone know of software (for a soundcard) that will enable one to
> digitize an audio stream, then allow playback at a slower speed while
> preserving the original pitch?

This is basically what the hsms guys do. I've tried some of that software
and haven't found any of it to be terribly satisfying. Changing the speed
while preserving the pitch is not exactly obvious - what they typically do
is change the speed and re-insert the pitch. Might not be exactly what you
want. You can find links to some of this software at
http://www.nitehawk.com/rasmit/ws1_15.html

72/73 de WB8RCR <http://users.tm.net/jjmcd/>
didileydadidah QRP-L #1446 Code Warriors #35

Date: Tue, 22 Dec 1998 10:27:38 -0800
From: dave_epps@juno.com
To: qrp-l@lehigh.edu
Subject: [27807] Fishing Pole Info (more)

Message-ID: <19981222.102740.-100607.1.dave_epps@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Collapsed length is 3' 10" and weight is 1.25 lb.
Has rubber tip on each end and even comes with an extra tip. Can double
as
a walking cane.
This is the Shakespeare "Wonderpole" TSP-20 \$19.95
This is a natural for a center support for the dipole & feedline made
from
ribbon cable. 100' 28 awg ribbon cable weighs 2 ounces. (single strand)
100' "Real McCoy" dipole with 50' bal. feedline weighs 4 ounces.
dave ab5pc fresno, ca.

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Date: Tue, 22 Dec 1998 11:49:15 -0700
From: tom whalen <whalen@swcp.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [27808] Fireball notes
Message-ID: <367FE9AB.71EE@swcp.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

QRPer's!

Finished my Fireball xmtr a couple of days ago. I decided to build mine
for 40m. Initially, tried it out into a dummy load and it sounded real
good having a clean note. Put it on an antenna, and it either quit
oscillating or just put out a broad band hash. The antenna is a 40m zepp
fed with 300 ohm twinlead. I had the antenna pre tuned by using my IC
706. Thought that was weird, worked into a 50 ohm dummy load, but when
put on an antenna that looked like 50 ohmsit went nuts!

So, I decided to try different positions on the antenna tuner that
represented different impedances. Finally found a combo of settings, and
the lil rig came to life again!!

Am going to do the 1 watt mod, and maybe that will help.

So, if you Fireball does not emit flames on 40m, try different antenna impedances....ie...put tuner in other than 50 ohm position.

Anyone available for the next couple of hours to see if they can hear my lil Fireball? Will be on 7.080 till 2030 utc.

72, Tom WB5QYT

Date: Tue, 22 Dec 1998 14:10:14 EST
From: SABorns@aol.com
To: qrp-l@lehigh.edu
Subject: [27809] xistor cross ref
Message-ID: <23d15577.367fee96@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

Anyone have a cross reference for a X29A829 transistor (Heath 417-201) used in HW-9.

73, Steve K8IDN

Date: Tue, 22 Dec 1998 14:31:22 -0500
From: Tom Palmer <n1tp@worldnet.att.net>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [27810] Old Radio gallery
Message-ID: <367FF389.2DE89C33@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

If you'd like to see a few hundred jpg color pictures of old radios plus a few classic microphones, check out:

<http://www.accessone.com/~philn/gallery.html>

73, Tom, N1TP

Date: Tue, 22 Dec 1998 14:41:29 -0500
From: hamjoel@juno.com
To: qrp-1@lehigh.edu
Subject: [27811] halp on btl program with qrp++ (rtty)
Message-ID: <19981222.144130.-247975.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

high gang

can't seem to get any audio to monitor incoming signals.... program receives signals but I can't hear them... any help apreciated..

OH JUST WORKED IK4IDF RAF ON TWENTY RTTY

GREAT MODE... MY 5 WATTS AND W8JK ANT DOING FB FOR ME

GOD BLESS

JOEL IN MAINE RTTYing into italy and other far off places

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Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 22 Dec 1998 14:42:19 -0500
From: "Harry T. Hurst, WA3PTG" <hhurst@delaware.infi.net>
To: <MJC191@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [27812] Re: magazines and QRP columns
Message-ID: <199812221949.0AA18428@fh105.infi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

> Maybe what we need to do is put our own heads together
> and start publishing "72 Magazine"! I bet it would be a hit...
> Zombies instead of UFO's, and Embedded Ticks instead of
> bioelectrifiers.

Maybe all those little QRP journals could be rolled into a monthly radio magazine for QRPers. hmmm...

Date: Tue, 22 Dec 1998 14:20:05 -0500
From: "Peter Orban" <peter@peter237.imti.nrc.ca>
To: qrp-1@Lehigh.EDU
Subject: [27813] Any FT-301 experts?
Message-ID: <9812221420.ZM24675@peter237.imti.nrc.ca>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I picked up a FT301D some time ago at a hamfest.
I was told that the radio "needed alignment" and
it "lost its sensitivity". It also came with a
couple of parts to the input stage.

I barely powered up the radio when I got it, as
it did not come with a manual. Sure enough, the
receiver does not work, and when tuning, the
digital scale does not change. I have not even
tried the transmitter yet.

I finally received a copy of the manual from Yaesu,
so I will have a chance to look into the radio in
more detail.

The VFO unit only has a black plastic cover on it,
and I am wondering if it also had a metal plate
underneath it, just like the other circuit
sections.

The radio must have had a rough life, even the
booster unit on the back of the radio was wired
up backwards!

Any comments, repair advice, like and dislike would
be appreciated, as I am new to this radio.

Thanks, Peter, VE3PEY

--
--

Peter E. Orban
National Research Council of Canada
e-mail: peter.orban@nrc.ca

Date: Tue, 22 Dec 1998 14:58:19 EST
From: SABorns@aol.com
To: qrp-1@lehigh.edu
Subject: [27814] cross ref Thanks
Message-ID: <b343f5e7.367ff9db@aol.com>
Mime-Version: 1.0

Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

Thanks to all for the cross reference. QRP-L comes through again.

73, Steve K8IDN

Date: Tue, 22 Dec 1998 12:08:58 -0800
From: Pierre Constantineau <pierre@cmpe.ubc.ca>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [27815] [Fwd: Microsemi Announces Availability of RF Transistors and RF MOSFETs]
Message-ID: <367FFC5A.9D7E6FF5@cmpe.ubc.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Everyone,

The following message could be Good News for the future...
No connections with the company... Just forwarded the Info...

Microsemi wrote:

>
> Microsemi's RF Products Division announced today the availability of industry
standard RF Transistors and MOSFETs that are being obsoleted by manufacturers.
>
> Under Microsemi's Zero Obsolescence Policy we are now offering the following
devices:
>
> MRF151 Type (MSC P/N MS4500);
> MRF321 Type (MSC P/N MS1642);
> MRF323 Type (MSC P/N MS1631);
> MRF892 Type (MSC P/N SD1400-02);
> MRF898 Type (MSC P/N MS1536);
> MRF899 Type (MSC P/N MS1578);
>
> These are a combination of RF Transistors and MOSFETs used in HF, VHF, and UHF
Communication equipment.
>
> For additional information on product availability contact Mike Nagle of
Microsemi RF Products at (215)631-9840 or visit our website at: <http://>

www.microsemi.com

Date: Tue, 22 Dec 1998 14:23:09 -0600
From: "JUNIUS B FOX" <w5hir@gte.net>
To: <qrp-1@lehigh.edu>
Subject: [27816] Multiple copy
Message-ID: <003f01be2de8\$e9e7d5a0\$0a6afed0@w5hir.gte.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I am receiving 3 of everything sent on the reflector. I wonder if it is a problem with the Reflector, or my POP server??

Anyone else having this problem??

Foxy

w5hir@gte.net
Five out of four people have trouble with fractions

Date: Tue, 22 Dec 1998 13:29:10 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Pierre Constantineau <pierre@cmpe.ubc.ca>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [27817] Re: [Fwd: Microsemi Announces Availability of RF Transistors and RF MOSFETs]
Message-ID: <Pine.BSI.3.96.981222132507.21803A-1000000@usr09.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I've already gotten samples of the MS4040 and MS4000 devices. The outfit I work for has office space in MicroSemi's Scottsdale, AZ, facility. MS is really pushing these devices, and the MS4040 would make a great output stage for a QRP xmtr, and if operated as Class-F it would probably exceed 90% drain efficiency.

On Tue, 22 Dec 1998, Pierre Constantineau wrote:

> Hi Everyone,

Date: Tue, 22 Dec 1998 13:28:03 -0700
From: tom whalen <whalen@swcp.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [27818] Fireball'ers!???
Message-ID: <368000D3.4D49@swcp.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Fireball'ers!

Anybody have their Fireball up and running on 40 yet? Looking for a
Fireball to Fireball qso!

The antenna impedance is VERY critical for my Fireball to oscillate.

Would sure like to hear from others concerning their lil flame throwers!

Had a faild attemp at a qso with WA0REE Ron today. He gave it his best
shot, and we will try again tomorrow hopefully...

72, Tom WB5QYT...."Have spud,bug, and flames will travel!"

PS: ED,WE6W get your Pixie on 7.080!

Date: Tue, 22 Dec 1998 13:31:16 -0700
From: tom whalen <whalen@swcp.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [27819] Fireball 160!
Message-ID: <36800194.16DA@swcp.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

QRPer's!

Going to put a 1.843 oscillator can in my Fireball tomorrow, just to see
what happens....Lets see will have 1.843mhz, 921.5kc,460.75kc,and

230.375kc....WOW, how low can you go!!

72, Tom WB5QYT/qrpp

Date: 22 Dec 1998 14:54:11 -0600
From: "rohre" <rohre@arlut.utexas.edu>
To: "Howard D Rubin" <n3fel@juno.com>, qrp-1@lehigh.edu
Subject: [27820] RE: Simpson and and my first VOM
Message-ID: <n1297783987.46725@msmailgw1.arlut.utexas.edu>

Hi Howard,
My first VOM came much later than yours, when one of my neighbor hams revealed, that at the end of WW2 he had come into a stash of US made VOMs, NOS, and would sell me one for the princely sum of maybe \$10 then. It is still around, and I only had to replace one resistor as I recall, but I also modified the rectifiers from copper oxide to 1N34's germanium diodes at negligible effect on accuracy on AC Volts so the thing would work as a Field Strength meter with a wire stuck in one of the low voltage pin jacks. All the ranges were done by switching test lead to the appropriate pin jack, thus saving the cost of a switch in war time scarcity. Think the brand is something like NYC Radio Manufacturing or something like that. There was a commercial product in 50's that still resembled this model.

I will always remember Bill Casey reaching far up on a shelf of his hall closet and bringing down the box which was in the old WW2 moisture and fungus proof wrapping, and we opened up this VOM, which was packed in 1943 or so, and only saw light of day about 1959. It was like having a Simpson 260 to me then, as 260's were only something you saw in the catalog, and dreamed about.

My favorite VOM at work was a Simpson 270 mirror scale high accuracy and damped movement meter I had for many years. Now I use Fluke's with the bar graph scale for analog measure, as well as digital display. But, for a quick measure I often still reach for a analog VOM.

Date: Tue, 22 Dec 1998 12:56:41 -0800
From: "Bill Todd" <bill@willapabay.org>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [27821] Mysterious code groups on 28.044?
Message-ID: <000701be2ded\$9458cfe0\$174ffbce@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello folks -

It's 20:58 UTC on Tuesday, and I have been monitoring 28.044 for about 10 minutes. I am hearing a group of number groups in the following manner:
VVV 9799 VVVV VVV 9837 VVVV, etc., etc..

Does anyone have a clue what this is?

CUL, Bill-N7MFB
<http://www.willapabay.org/~bill>
ICQ me @ 8926298

Date: Tue, 22 Dec 1998 12:43:13 -0800
From: Bill Jones <kd7s@psnw.com>
To: qrp-1@lehigh.edu
Subject: [27822] Re: magazines and QRP columns
Message-ID: <36800461.D3ADC2CD@psnw.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

"Harry T. Hurst, WA3PTG" wrote:

> Maybe all those little QRP journals could be rolled into a monthly radio
> magazine for QRPers. hmmm...

Speaking for myself, I believe we are MUCH better off with what we have. If, for the next three months, you took all the pages in QST, CQ and 73 that dealt with construction and/or education, I doubt they would fill one single issue of QRPP.

--

=====
Bill Jones - KD7S <><
Sanger, California
<http://www.psnw.com/~kd7s>
=====

Date: Tue, 22 Dec 1998 12:13:48 -0900
From: Bruce Hopkins - KL7H <kl7h@eagle.ptialaska.net>

To: bill@willapabay.org
Cc: qrp-1@lehigh.edu
Subject: [27823] Re: Mysterious code groups on 28.044?
Message-ID: <v03007802b2a5babe915c@[208.151.111.47]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Bill...

It is S3 to S9 in Alaska... He is sending VVVV and then a number that increments by 1 each group... Perhaps someone set up a loop on their CMOS III and bumped the memory button by accident... My wife Tosh (KL7WW) suggested that perhaps it is one of the "Pirates" practicing his code... 8^)

Take care and have fun... Best of the Holidays to all...

72 / 73 / oo's - Bruce - KL7H

"Alaska QRP Club" - Web Site: <http://www.ptialaska.net/~bhopkins/akqrp>

Date: Tue, 22 Dec 1998 16:20:28 -0500
From: w2bj@juno.com (Barry J Minsky)
To: antennas@qth.net, cw@qth.net, forsale-swap@qth.net, qrp@qth.net, qrp-1@lehigh.edu, qrpp@qth.net
Subject: [27824] HAPPY HOLIDAYS
Message-ID: <19981222.162030.-87631.0.w2bj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

May God's richest blessings be yours during the Christmas season. Let us worship the King together.

"you shall call His name Jesus, for it is He who will save His people from their sins." Matthew 1:21

Have a great holiday. Hope to see you on the bands.

72/73,

Barry J. Minsky, W2BJ

ARRL, QRP ARCI #8871, NorCal #1560, QRP-L #1543, FISTS #2701, Century Club #569, FISTS CW Club of Coastal Georgia, Knightlites, Adventure Radio Society #359,

Six Club #151, QCWA #29298, OOTC #3723
Amateur Radio Missionary Service

Date: Tue, 22 Dec 1998 16:31:43 -0800
From: af852@rgfn.epcc.edu
To: qrp-1@lehigh.edu
Subject: [27825] re: w7zoi website
Message-ID: <368039EF.3349@rgfn.epcc.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks to the party that passed the url for the website of W7ZOI,
good info and nice pix there. Nice looking shack/workbench altho it
appears much more crowded than the picture in the November 1972
QST picture, page 90 which shows what looks to be the same bench top,
shelves and shelf brackets. Nice being able to compare the differences
of 26 years.

--

Ray Colbert,
(also w5xe@juno.com)
El Paso, Texas (Far West Texas)

Date: Tue, 22 Dec 1998 15:35:14 -0600
From: Michael Melland <badger@vbe.com>
To: qrp-1@LEHIGH.EDU
Subject: [27826] It works !!!!!!!
Message-ID: <36801092.2D02@vbe.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Being mostly a "lurker" here on the list I don't post too often,
but..... I just finished my T-Kit 1340 this morning and decided to try
it out. Off came the coax from the Omni V and onto the 1340. First I
tried an old gel cell I had laying in the shack. I tried a few cq's and
noted the power was about 3 watts. I checked the gel cell and saw only
about 11 volts.....next I hooked up my 13.8 volt supply to the rig and
low and behold a steady 5 watts. On the second cq a VE3 came back to me
but I was so flustered that I screwed up and didn't get my return right
out and he must have moved on. Next I swung off to about 7.049 and

tried another cq..... back came N8LBI, John near Cleveland running a TS-440 at 50 watts. I was overjoyed !!!! The darn thing actually worked and I built it !!! Seems to be a little hash on the audio..... bad cap or just conditions today (?).... who cares for now !! Had a nice 20 min qso using by homebrew key made from a micro switch.... cw was a little slow but it worked too !!! Now on to the next project.....hmmmmmmmm..... this stuff is infectious !!!

--

Michael Melland, KB9QHU
Winneconne, Wisconsin, USA
FISTS #4387, 10-10 #69281, QRP-L #1656
CW, SSB, and Electronics
List Administrator: grundig@qth.net
<http://www.vbe.com/~badger>
<http://www.qsl.net/kb9qhu>

Date: Tue, 22 Dec 1998 17:14:16 EST
From: we6w@juno.com (Ed Loranger)
To: whalen@swcp.com
Cc: qrp-l@Lehigh.EDU
Subject: [27827] Re: Fireball 160!
Message-ID: <19981222.141523.7263.4.we6w@juno.com>

Dag-nabbit, Tom. You are getting me all worked up with all this enthusiasm. You should have stayed on the Vibro-Fox Finders Team in the fox hunts! What great spirit.

Ok. I have a 1.843 MHz osc. I also have a 10 Meter osc. as well. But lil' ol' me Don't have no stinkin' circuit for a fireballer! Geez. I bet it is buried in the garage somewhere....

Or do I just hook up the two pins and start Osculating <>

If anyone has an ascii dwg I can get on Juno, I'd build one today!

Back to my hound hut....

-Ed

72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>
Enjoying Ham Radio every day! Santa Rosa, CA.

On Tue, 22 Dec 1998 13:31:16 -0700 tom whalen <whalen@swcp.com> writes:
>QRPer's!

>

>Going to put a 1.843 oscillator can in my Fireball tomorrow, just to
>see
>what happens....Lets see will have 1.843mhz, 921.5kc,460.75kc,and
>230.375kc....WOW, how low can you go!!
>
>72, Tom WB5QYT/qrpp
>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 22 Dec 1998 16:30:53 -0600
From: "JUNIUS B FOX" <w5hir@gte.net>
To: <qrp-l@lehigh.edu>
Subject: [27828] Multiple copy
Message-ID: <00c601be2dfa\$bfe54460\$0a6afed0@w5hir.gte.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Found the culprit. There was a corrupted message at the POP. Each time I
tried to get the e-mail, the flow stopped at that message. thus the
multiple copy.
I called the ISP, and got things straightened out.. thanx for all who
replied..

Foxy w5hir@gte.net
Five out of four people have trouble with fractions

Date: Tue, 22 Dec 1998 17:57:46 -0500
From: "W. D. (Doc) Lindsey" <70511.3041@compuserve.com>
To: QRP-L Discussion Group <QRP-L@LEHIGH.EDU>
Cc: "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [27829] FOXes--TWO tonight :-)
Message-ID: <199812221801_MC2-6479-2BAF@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Content-Transfer-Encoding: 7bit

Gang:

This is another of those two-FOX evenings. There will be Mary WN6HYX the N/T+ FOX at 0100-0300. Her starting frequency will be 7.100.

Also starting at 0100 will be WQ8RP, who announced the starting frequency between 7.035-7.040. NB the change from Hank K8DD.

Anyway, good luck tonight, one and all. And thanks again for supporting our fine N/T+ FOXes this year. Everyone has been great to encourage and work them.

72/73,

--Doc Lindsey/K0EVZ

DSBF

P.O. Box 7187

Bismarck, ND 58507

E-Mail 70511.3041@compuserve.com

Date: Tue, 22 Dec 1998 18:59:13

From: Ben Pooley <bpooley@bar.auracom.com>

To: jdolson@iserv.net

Cc: qrp-1@Lehigh.EDU

Subject: [27830] Re: Charging Batteries in Parallel ???

Message-ID: <3.0.6.16.19981222185913.35e7aa9c@bar.auracom.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

At 20:26 21/12/98 -0500, you wrote:

>Hi Gents.

>

>I can't afford a couple of large deep discharge batteries, but I can
>get, for free, ten identical new 30 AH gell-cells.

Used to do this on marine (small commercial fishing boat) applications:-

Neg. side of batteries common.

Between charger + and each battery connect a diode with ample current rating for max charge current. This may mean using something quite sturdy and a heatsink. Whether you need low forward drop diodes depends on how much "headroom" your charger has over the battery voltage. Low forward drop diodes will dissipate less power and therefore generate less heat.

This takes care of the problem of charging them together, but if you want them all to drive a common load (and want to keep them "floating" on the charger), then you have to play the same game with diodes FROM each battery to drive the load; this is where you would really need minimum forward drop in the diodes.

As an alternative, each battery can drive its own load. For example, in the marine application, each battery was charged from the alternator through its own diode, but the batteries powered completely separate circuits, e.g. one for engine (starter etc.), another for nav. lights, and another for electronic equipment.

Pardon the ramble.

73, Ben, VE1AHX

Ben Pooley, Allendale Electronics Ltd, RR1 Lockeport NS Canada B0T 1L0
bpooley@bar.auracom.com ve1ahx@rac.ca www.trico.ns.ca/smtassy

Date: Tue, 22 Dec 1998 18:18:09 EST
From: K2UD@aol.com
To: qrp-1@Lehigh.EDU
Subject: [27831] Re: QRP Column
Message-ID: <75f8191e.368028b1@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

QRP is also one of, if not the only bastion of the true spirit of ham radio left. What other group of hams homebrew, can troubleshoot, are technically competent, and in general contribute to the radio art? DXers, no (I am one). Rag-chewers, no. Digital operators, not really. FM and repeater operators, no (is that why QST is dumping the FM column?).

Look at the content of QST and the like. Who are they really geared for? Technically minded hams? I think not. Seems like they are going for the money, read that appliance operators and those who will never get off of VHF-FM.

My 2 pesos worth.

72,

Howard Kraus, K2UD

Date: Tue, 22 Dec 1998 18:33:18 -0500
From: mikemo@ibm.net
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [27832] Re: QRP Column
Message-ID: <36802C3E.6738@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

> Look at the content of QST and the like. Who are they really geared for?
> Technically minded hams? I thinks not. Seems like they are going for the
> money, read that appliance operators and those who will never get off of VHF-
> FM.

I like QST.... So what does that make me?

Merry Christmas and Happy Holidays to all my friends on QRP-L.
72 de ku4qo, Mike Maiorana, Palm Harbor, FL

End of QRP-L Digest 1313

